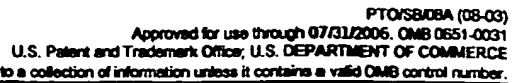


[illegible]

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS, SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

46966.1



INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete # Known	
Application Number	10/777,414
Filing Date	February 11, 2004
First Named Inventor	MENACHE, Alberto
Art Unit	3662
Examiner Name	Unassigned
Attorney Docket Number	MENAH-66588

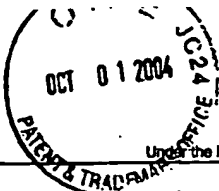
[illegible]

Examiner Signature	<i>J. J. M. M.</i>	Date Considered	12-21-04
-----------------------	--------------------	--------------------	----------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * Applicant's unique citation designation number (optional). ** See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP §901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). † For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ‡ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. § Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 35 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known		
				Application Number	10/777,414	
				Filing Date	February 11, 2004	
				First Named Inventor	MENACHE, Alberto	
				Art Unit	3662	
				Examiner Name	Unassigned	
Sheet	2	of	9	2	Attorney Docket Number	MENAH-66588

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
FHM		A. FENSTER et al., "3-D Ultrasound Imagine: A Review", IEEE Engineering in Medicine and Biology Magazine, IEEE Inc., New York, vol. 15, no. 6, November 1996, pages 41-51	
FHM		D. J. STURMAN, "Computer Puppetry," IEEE Computer Graphics and Applications, IEEE Inc., New York, vol. 18, no. 1, January 1998, pages 38-45	
FHM		Invitation to Pay Additional Fees, in corresponding PCT application No. PCT/US04/007375 (citing various references as relevant to claim which correspond to the following claims in the present application: claims 1-8, 19, 24-32, 35, 36, 54-69)	

Examiner Signature	<i>J H Mue</i>	Date Considered	12-21-04
--------------------	----------------	-----------------	----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.
This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

MAR 02 2004

PATENT & TRADEMARK OFFICE

Approved for use through 04/30/2003, OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 4

Complete if Known

Application Number	10/777,414
Filing Date	02-11-04
First Named Inventor	Alberto Menache
Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	MENAH-66588

U.S. PATENT DOCUMENTS

Examiner Initials [*]	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
FHM		US- 4,660,039		04/21/1987	Barricks, et al.	
FHM		US- 5,056,106		10/08/1991	Wang, et al.	
FHM		US- 5,317,394	A	05/31/1994	Hale et al.	
FHM		US- 5,363,297	A	11/08/1994	Larson, et al.	
FHM		US- 5,438,321		08/01/1995	Bernard, et al.	
FHM		US- 5,450,070		09/12/1995	Mussar, et al.	
FHM		US- 5,458,123		10/17/1995	Unger	
FHM		US- 5,513,854		05/07/1996	Daver	
FHM		US- 5,581,257		12/03/1996	Greene, et al.	
FHM		US- 5,583,517		12/10/1996	Yokev, et al.	
FHM		US- 5,729,475		03/17/1998	Romanik, Jr.	
FHM		US- 5,802,220		09/01/1998	Black, et al.	
FHM		US- 5,831,260		11/03/1998	Hansen	
FHM		US- 5,884,239		03/16/1999	Romanik, Jr.	
FHM		US- 6,005,548		12/21/1999	Latpov, et al.	
FHM		US- 6,050,962		04/18/2000	Kramer, et al.	
FHM		US- 6,070,269		06/06/2000	Tardif, et al.	
FHM		US- 6,095,928		08/01/2000	Goszyk	
FHM		US- 6,104,379		08/15/2000	Petrich, et al.	
FHM		US- 6,115,052		09/05/2000	Freeman, et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials [*]	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ³
		Office ³	Number ⁴	Kind ⁵ (if known)				
FHM		JP	10-742049		03/17/1998	Japan Radio Co. Ltd.	no translation	
FHM		JP	10-222668		08/21/1998	Syst Skomu:KK	no translation	
FHM		WO	98/41815		09/24/1998	Canadian Space Agency		
FHM		JP	10-261090		09/29/1998	Tokyo Electric Power Co. Inc	no translation	
FHM		WO	98/47426		10/29/1998	Virtual Technologies, Inc.		
FHM		WO	99/53443		10/21/1999	Elagin et al.		
FHM		JP	2000-146509		05/26/2000	Agency of Ind Science	no translation	
FHM		JP	2000-231638		08/22/2000	Namco Ltd.	no translation	
FHM		WO	01/09861		02/08/2001	Fulcher		
FHM		WO	01/35208		05/17/2001	Hwang		

Examiner
Signature

A H M. M. M.

Date

Considered

12-21-04

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/777,414
				Filing Date	02-11-04
				First Named Inventor	Alberto Menache
				Art Unit	Unassigned
				Examiner Name	Unassigned
Sheet	2	of	4	Attorney Docket Number	MENAH-66588

U.S. PATENT DOCUMENTS						
Examiner Initials ¹	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code (if known)			
		US- 6,127,672		10/03/2000	Danisch	
FHM		US- 6,148,280		11/14/2000	Kramer	
FHM		US- 6,157,592		12/05/2000	Kriz, et al.	
FHM		US- 6,172,499		01/09/2001	Ashe	
FHM		US- 6,176,837		01/23/2001	Foxlin	
FHM		US- 6,181,371		01/30/2001	Macquire, Jr.	
FHM		US- 6,204,813		03/20/2001	Wadell, et al.	
FHM		US- 6,269,172		07/31/2001	Rehg, et al.	
FHM		US- 6,272,231		08/07/2001	Mauer, et al.	
FHM		US- 6,288,785		09/11/2001	Frantz, et al.	
FHM		US- 6,324,296		11/27/2001	McSheery, et al.	
FHM		US- 6,369,564		04/09/2002	Khalfin	
FHM		US- 6,380,894	B1	04/30/2002	Boyd et al	
FHM		US- 6,400,139		06/04/2002	Khalfin, et al.	
FHM		US- 6,409,687		06/25/2002	Foxlin	
FHM		US- 6,428,490		08/06/2002	Kramer, et al.	
FHM		US- 6,549,004		04/15/2003	Prigge	
FHM		US- 6,563,107		05/13/2003	Danisch, et al.	
FHM		US- 6,567,116		05/20/2003	Aman, et al.	
FHM		US- 6,580,811		06/17/2003	Mauer, et al.	

FOREIGN PATENT DOCUMENTS								
Examiner Initials ²	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	To
		Office ³	Number ⁴	Kind ⁵ (if known)				
FHM		JP	2001-26550 21		09/28/2001	Hitachi Kokusai Electric Inc	no translation	
FHM		CA	2405048		11/01/2001	Inspeck Inc.	abstract only	
FHM		JP	2001-21540 58		08/10/2001		no translation	
FHM		WO	01/81859 A1		11/1/2001	INSPECK INC.		

Examiner Signature	<i>A H Myull</i>	Date Considered	12-21-04
-----------------------	------------------	--------------------	----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
Application Number	10/777,414				
Filing Date	02-11-04				
First Named Inventor	Alberto Menache				
Art Unit	Unassigned				
Examiner Name	Unassigned				
Attorney Docket Number	MENAH-66588				
Sheet	3	of	4		

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code (if known) ²			
FHM		US-	20010033675	10/25/2001	Maurer, et al.	
FHM		US-	20020097245	07/25/2002	Jeong, et al.	
FHM		US-	20020145563	10/10/2002	Kane, et al.	
FHM		US-	20030002033	01/02/2003	Boman	
FHM		US-	20030045816	03/06/2003	Foxlin	
FHM		US-	20030079218	04/24/2003	Goldberg	
FHM		US-	20030083596	05/01/2003	Kramer, et al.	
FHM		US-	20030095708	05/22/2003	Pittel	
FHM		US-	20030120425	06/26/2003	Stanley, et al.	
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind ⁵ (if known)				

Examiner Signature		Date Considered	12-21-04
-----------------------	--	--------------------	----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO			Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Application Number	10/777,414
			Filing Date	02-11-04
			First Named Inventor	Alberto Menache
			Group Art Unit	Unassigned
			Examiner Name	Unassigned
			Attorney Docket Number	MENAH-66588
Sheet	4	of	4	

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials [*]	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
FHM	x	REYNOLDS MATTHEW; "A Phase Measurement Radio Positioning System for Indoor Use"; MIT; February 3, 1999	
FHM	x	LANCASTER, DON; "Tech Musings"; Number 135; April 1999.	
FHM	x	HIGHTOWER, JEFFREY, et al; "SpotON" An Indoor 3D Location Sensing Technology Based on RF Signal Strength"; UW CSE Technical Report #2000-02-02; February 18, 2000	
FHM	x	HIGHTOWER, JEFFREY and GAETANO BORRIELLO; "Location Systems for Ubiquitous Computing"; IEEE Computer Magazine; August 2001.	
FHM		FOXLIN, ERIC; "Motion Tracking Requirements and Technologies"; Extended draft versino of Chapter 8 in Handbood of Virtual Environment Technology; Kay Stanney, Ed.; Lawrence Erlbaum Associates; 2002	
FHM	x	KITASUKA, TERUKAI, et al.; "Location Estimation System Using Wireless Ad-Hoc Network"; 2002.	
FHM		TRAKUS, INC.; Various pages from http://www.trakus.com ; displaying "Copyright 2002" and printed on December 16, 2003.	
FHM		MENACHE, ALBERTO, "Understanding Motion Capture for Computer Animation and Video Games" Academic Press 2000 (pp. vii-ix, xiii-xiv, 1-2, 14-37, 205-206)	
FHM		J. HIGHTOWER ET AL., "DESIGN AND CALIBRATION OF THE SpotON AD-HOC LOCATION SENSING SYSTEM".	

Examiner Signature	<i>ANT Mank</i>	Date Considered	12-21-04
--------------------	-----------------	-----------------	----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.